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(54) **SWEETENER COMPOSITION**

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(58) **Field of Search** **426/548, 590;**
560/39, 40, 41

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(57) **ABSTRACT**

One embodiment of the present invention provides a sweetener composition, which includes a mixture of N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester, and Acesulfame K, wherein a ratio of the Acesulfame K to a total amount of the N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester and the Acesulfame K is in the range of 10 to 97% by weight, methods of making and of using. Another embodiment of the present invention provides a method for preparing a sweetener composition, which includes drying an A-type crystal of N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester to obtain a C-type crystal of N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester. Another embodiment of the present invention provides a method for producing a sweetener, which includes admixing N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester with Acesulfame K, wherein a ratio of the Acesulfame K to a total amount of the N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester and the Acesulfame K is in the range of 10 to 97% by weight. Another embodiment of the present invention provides a method for improving the dissolution rate of N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester, which includes, prior to dissolving the N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester, admixing the N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester with Acesulfame K, wherein a ratio of the Acesulfame K to a total amount of the N-{N-(3,3-dimethylbutyl)-L- α -aspartyl}-L-phenylalanine 1-methyl ester and the Acesulfame K is in the range of 10 to 97% by weight.

17 Claims, 2 Drawing Sheets